

# DTP HDMI 301 • Setup Guide

This guide provides quick start instructions for an experienced installer to set up and operate Extron DTP HDMI 301 digital video extender. The DTP 301 transmitter and receiver pair can extend an HDCP-compliant HDMI signal up to 330 feet (100 m).

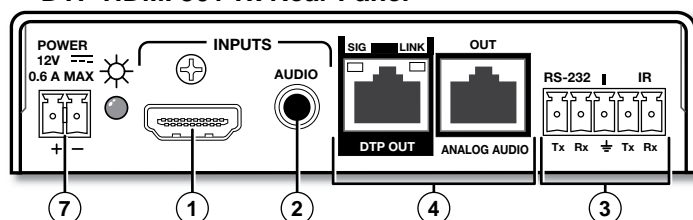
**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

## Installation

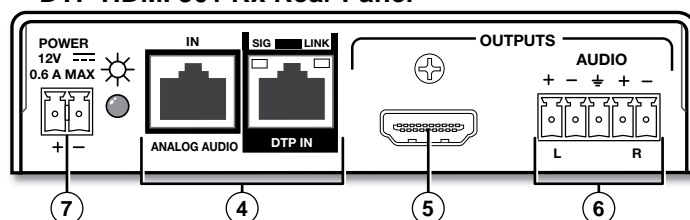
### Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the Tx and Rx units as required.

DTP HDMI 301 Tx Rear Panel



DTP HDMI 301 Rx Rear Panel



### Step 2 — Connections

- ① **HDMI Input connector (Tx)** — Connect an HDMI cable between this port and the HDMI output port of the digital video source.
- ② **Audio input (Tx)** — Connect an unbalanced stereo audio source to this 3.5 mm mini stereo jack for an analog audio input.
- ③ **RS-232 and IR connectors** — To pass serial or infrared data or control signals, such as serial control of a projector, connect the master device to the transmitter and the slave device to the receiver via the RS-232 and IR captive screw connectors on both units.
- ④ **DTP and Analog Audio (Output and Input) RJ-45 connectors** — Connect one or two TP cables between these RJ-45 female connectors on the transmitter and receiver.
- ④a **DTP connector (required)** — Connect transmitter DTP Out to receiver DTP In.

This cable carries:

- TMDS (digital) video
- Embedded audio
- Bidirectional RS-232 and IR commands and data
- Remote power

**Signal LED** — This LED lights when the unit is receiving a TMDS clock signal on the HDMI input (transmitter) or any valid signal on the DTP In connector (receiver).

**Link LED** — This LED lights a valid link is established between the units on the DTP cable.

- ④b **Analog Audio connector (optional)** — Connect transmitter Analog Audio Out to receiver Analog Audio In. This cable carries analog audio **only** and is not needed for applications that do not require this audio signal.

Terminate all cable ends in accordance with the same standard, either TIA/EIA T 568 A or TIA/EIA T 568 B.

**CAUTION:** Do not connect these devices to a computer data or telecommunications network.

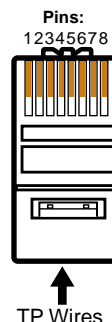
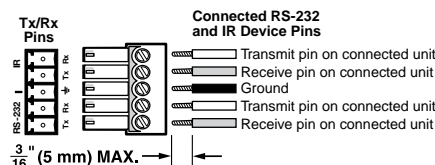
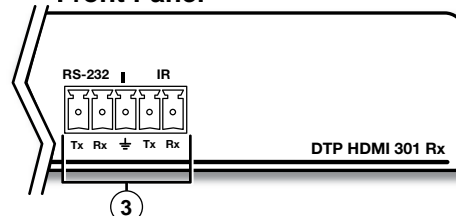
**NOTES:** • The DTP and Analog Audio ports are in reverse order on the receiver.

• You can check the DTP Out to DTP In cable connection as follows:

1. Plug a cable into the DTP jack on the powered unit.
2. Connect the opposite end of the cable into the DTP jack on the unpowered unit.

If the DTP Link LED and the Power LED on the unpowered unit are lit, the connection is correct.

Front Panel



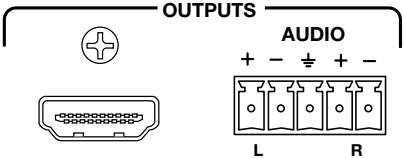
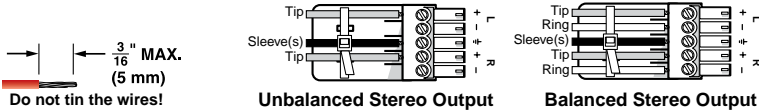
Pin	TIA/EIA T 568 A Wire color	TIA/EIA T 568 B Wire color
1	White-green	White-orange
2	Green	Orange
3	White-orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Orange	Green
7	White-brown	White-brown
8	Brown	Brown

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**HDMI Output connector (Rx)** — Connect a display with an HDMI input for display of the transmitted direct digital image.
- 6

**Audio Output connector (Rx)** — Connect a balanced or unbalanced stereo or mono audio device to the receiver via the Audio captive screw connector. See the drawing below.



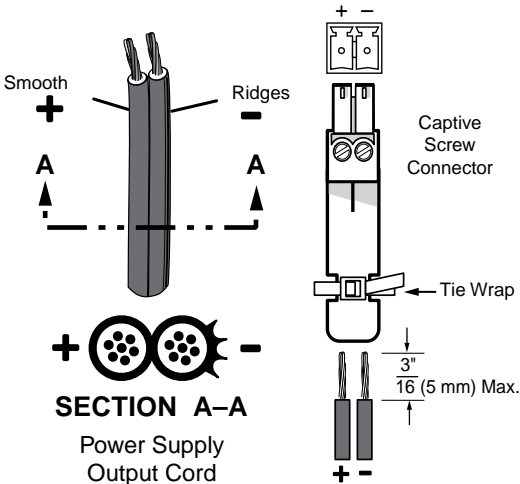
**CAUTION:** Connect the sleeves to the ground contact. **DO NOT** connect the sleeves to the negative (-) contacts).

- 7

**Power connector** — Connect an IEC power cord between the included 12 VDC power supply and a 100-240 VAC, 50-60 Hz source. Connect the power supply to either unit as shown at right.

**CAUTION:** This product is intended to be supplied by a Listed Power Unit marked "Class 2" or "LPS," rated 12 VDC, 1.0 A minimum. Always use a power supply supplied by or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product. Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 75 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to a building structure or similar structure.

**NOTE:** Only one power supply is required. A single power supply connected to either unit in the pair powers both units. A power supply is included with each transmitter.



## Operation

After all devices are powered up, the system is fully operational. See the definitions of the power indications (shown at right), below:

- 1

**Power LED (front panel)** —
 

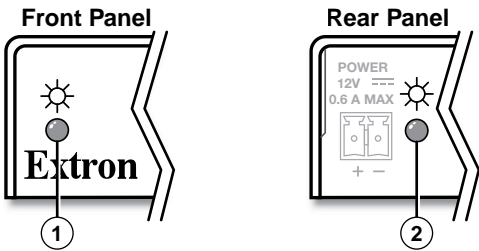
**Amber** — The unit is receiving power, either locally or remotely (on the DTP cable).

**Green** — The unit is powered on and is receiving an active HDMI signal, either on the HDMI input if a transmitter, or transmitted on the DTP cable if a receiver.
- 2

**Power LED (rear panel)** —
 

**Amber** — The unit is receiving power remotely (on the DTP cable).

**Green** — The unit is receiving power locally.



If any problems are encountered, verify that the cables are routed and connected properly. If your problems persist, call the Extron S3 Sales and Technical Support Hotline that is closest to you, at the number shown below.

Extron USA - West Headquarters	Extron USA - East	Extron Europe	Extron Asia	Extron Japan	Extron China	Extron Middle East
+800.633.9876 Inside USA/Canada Only +1.714.491.1500 +1.714.491.1517 FAX	+800.633.9876 Inside USA/Canada Only +1.919.863.1794 +1.919.863.1797 FAX	+800.3987.6673 Inside Europe Only +31.33.453.4040 +31.33.453.4050 FAX	+800.7339.8766 Inside Asia Only +65.6383.4400 +65.6383.4664 FAX	+81.3.3511.7655 +81.3.3511.7656 FAX	+400.883.1568 Inside China Only +86.21.3760.1568 +86.21.3760.1566 FAX	+971.4.2991800 +971.4.2991880 FAX

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